

Architects Specifications

Powerflex-470 70 Volt Four Channel Amplifier

The power amplifier shall be a multichannel unit consisting of four independent channels. Each amplifier shall be able to deliver 250 watts at 70 volts, , 500 watts at 140 volts, all channels driven. Each individual channel shall be able to drive 70 volt distributed audio lines without the use of an external transformer. When channels are paired, the paired channels shall be able to drive 140V distributed audio lines without the use of external transformers.

The amplifier shall have a gain of 34.0 dB (50x) and an input sensitivity of 1.40 Volts RMS for full rated output. Frequency response shall be 20Hz to 20kHz +/- 0.5dB. Hum and noise shall be at least 100dB below full output (A-weighted) and SMPTE intermodulation distortion shall be less than 0.2%. Total Harmonic Distortion (20Hz - 20KHz) shall be less than 0.5%.

Each amplifier channel shall be supplied with an input attenuator located on the rear panel input module. Each pair of inputs shall have a bypassable high pass filter of 12dB/octave at 80Hz, a switch to select independent or parallel channel mode and a switch to select normal 70V or bridge 140V mode. There shall

be an input ground switch located on the input module to select chassis or floating ground operation.

The inputs shall be active balanced design, with an impedance of 10K ohm accessible with euroblock connectors. The outputs shall be terminated with a screw terminal connector.

Individual channel indicators for protect, thermal overload, clip and signal present shall be LEDs located on the front panel.

Cooling shall be supplied by a temperature sensitive two-speed fan drawing air from the front of the unit and exiting through the rear.

The unit shall be powered from 110 - 125V AC, 220 - 250V AC, 50/60Hz. Dimensions of the unit shall be 19"L X 5.25"H X 16.5"D. The chassis shall be constructed from 16 gauge steel with an aluminum face panel and weigh 45lbs.

The unit shall be the Powerflex-470, 70 Volt four channel power amplifier manufactured by Ashly Audio, Inc.

- Four Channel Amplifier - 250W/Ch 70V, 500W/Ch 140V
- High-Speed Switched MOSFET Output Design with Spread Spectrum Switching Technology
- Superior Efficiency Over Conventional Linear Amplifiers
- Input Module with Level Controls Located on Rear Panel
- Switchable HPF on Inputs
- Euroblock Input Connections
- Screw Terminal Output Connections
- Individual Channel Front Panel Level and Protection Indicators
- Multiple Protection Circuits
- Bridgeable Channel Pairs
- Internal Modular Design
- Quiet, Two-Speed Fan
- Front In/Rear Out Channeled Air-Flow
- Five Year Warranty

General Specifications Powerflex 470

*Power Output

(Maximum Average Power, 0.1% THD, 1KHz)

Rated Per Channel, Two Channels Driven

70V: 300Watts RMS

140V (Mono Bridged, 1-Channel): 600 Watts RMS

Rated Per Channel, Four Channels Driven

70V: 250 Watts RMS

140V (Mono Bridged, 2-Channels): 500 Watts RMS

Input Impedance: 10K ohm balanced, 37K ohm unbalanced

High Pass Filter: 80Hz, 12dB/octave, internally selectable

****THD (20Hz - 20KHz, 250W, 4-Channels Driven):** <0.5%

**IMD

(SMPTE 60Hz/7KHz 4:1): <0.2%

****Hum and Noise:** < -100dB from full output (A-weighted)

Full Power Input Sensitivity: 1.4V RMS (5.1dBu)

Frequency Response: ± 0.5 dB (20Hz-20kHz, full power)

Voltage Gain: 50X (34.0dB)

Crosstalk: < -75dB (20Hz - 1KHz)

Signal Present Signal Sensitivity: 14mV RMS (-34.9dBu)

Power Requirement: 110-125VAC, 220 - 250VAC, 50/60Hz

Typical Idle Current

120V: 0.94A

240V: 0.48A

Current with Typical Audio Program Material (4 Channels Driven)

120V: 10.0A

240V: 5.0A

Connections

Input: Euroblock

Output: Screw Terminal

Cooling: Forced Air, Thermal Sensitive 2-Speed Fan, Front Inlet/Rear Outlet

Dimensions: 19"L x 5.25"H x 16.5"D

Construction: All-Steel Chassis, Extruded Aluminum Front Panel

Weight: 45 lbs. net, 52 lbs. shipping

Specification conditions are: 120VAC mains at 60Hz, 25° C

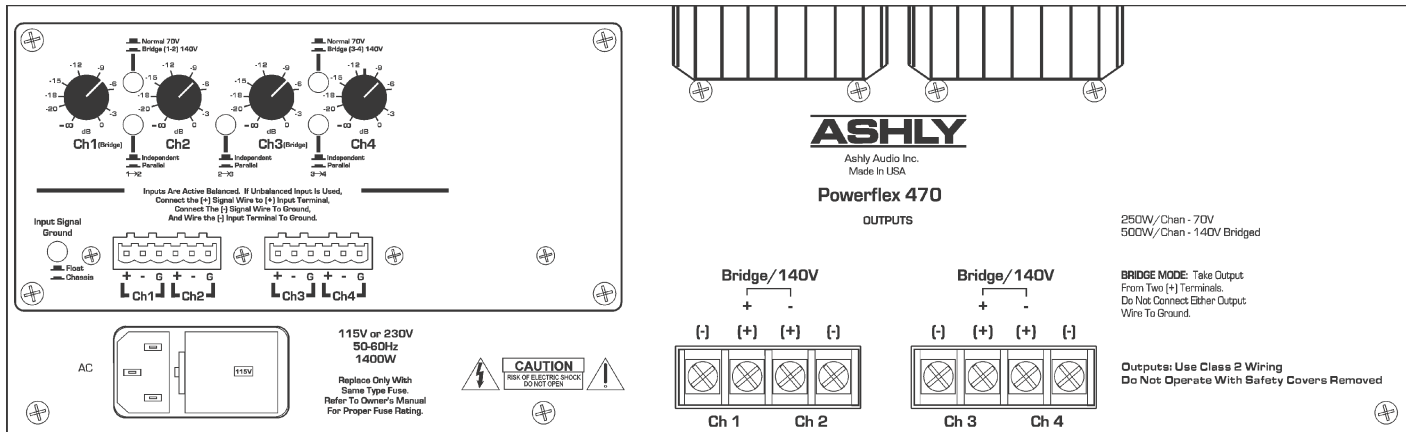
* Continuous power limited by power line capacity

**Non-conventional amplifiers require bandwidth limiting for all distortion and noise measurements

Signal peaks in audio programming may trigger protection circuitry at low line voltages

Specifications are subject to change or improvement without notice

Rear Panel Powerflex-470



Applications:

Any 70V and 140V multichannel power amplification application, paging systems, cinema systems, boardroom audio applications, multiple zone restaurant, bar, theme park or auditorium systems.

Ashly manufactures a complete and comprehensive line of Graphic and Parametric Equalizers, Electronic Crossovers, Power Amplifiers, Compressor-Limiters, Mixers, and Amplifier Input Options. Please call, write or visit our web site for information on any of these Ashly Products.

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